BRUHAT BANGALORE MAHANAGARA PALIKE

Agency: M/s KRIDL

Name of Work: Development of secondary and tertiary drains in ward No.07 Byatarayanapura

Sl No	Description of item	Unit	No	L	B	D	Qty
1	Earthwork excavation by manual means in rodinary soil involving an average horizontal throw upto 2 m and an average lift upto 1.5m, excavated surafce levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking clods complete as per specifications.						
	Location	**cum**					
	Chiranjeevi layout road (From Muneswamy gowda layout main road to Esteem mall road)						
	0-45		1	45	0.9	0.9	36.45
	48.5-78.5		1	30	0.9	0.9	24.30
	78.5-108.50		1	30	0.9	0.9	24.30
	108.5-120.50		1	12	0.9	0.9	9.72
	0-30		1	30	0.9	0.9	24.30
	30-60		1	30	0.9	0.9	24.30
	60-97		1	37	0.9	0.9	29.97
	102-127		1	25	0.9	0.9	20.25
	2nd cross						
	0-30		1	30	0.9	0.9	24.30
	30-50		1	20	0.9	0.9	16.20
	RWH		4	0.5		2.5	5.00
	Kuvempu layout main road (From jain heritage school to sindhi						
	to 4th cross road	0-24	1	24	0.9	0.9	19.44
	4th- 3rd cross road	0-25	1	25	0.9	0.9	20.25
	3rd-2nd cross road	0-25	1	25	0.9	0.9	20.25
	2nd to 1st cross road	0-25	1	25	0.9	0.9	20.25
	1st to purva pavillion pat	0-30	1	30	0.9	0.9	24.30
	Opp to road	0-30	1	30	0.9	0.9	24.30
		30-62	1	32	0.9	0.9	25.92
	LHS Side		1	3.6	1.8	1	6.48
			1	3.8	1.8	1	6.84
			1	2.5	1.8	1	4.50
			1	6.6	1.8	1	11.88
			1	7.4	1.8	1	13.32
			1	5.7	1.8	1	10.26
			1	5.3	1.8	1	9.54
			1	5.7	1.8	1	10.26
			1	5.5	1.8	1	9.90

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			1	4	1.8	1	7.20
						Total	**483.98**
	Overburden earth		1	35	0.85	0.9	26.78
			1	22.5	0.75	0.9	15.19
			1	39	0.65	1	25.35
						Total	**67.32**
							551.30
2	Providing and laying in position plain cement concrete of nominal mix 1:4:8 using 40mm and down size graded granite metal machine mixed, conrete laid in layers not exceeding 15 cms. Thick well compacted in foundation and plinth, including cost of all materials labour, HOM of						
	Chiranjeevi layout road (From Muneswamy gowda layout main road to Esteem mall road)						
	0-45		1	45	0.9	0.15	6.08
	48.5-78.5		1	30	0.9	0.15	4.05
	78.5-108.50		1	30	0.9	0.15	4.05
	108.5-120.50		1	12	0.9	0.15	1.62
	0-30		1	30	0.9	0.15	4.05
	30-60		1	30	0.9	0.15	4.05
	60-97		1	37	0.9	0.15	5.00
	102-127		1	25	0.9	0.15	3.38
	2nd cross						
	0-30		1	30	0.9	0.15	4.05
	30-50		1	20	0.9	0.15	2.70
	Kuvempu layout main road (From jain heritage school to sindhi college road)						
	to 4th cross road	0-24	1	24	0.9	0.15	3.24
	4th- 3rd cross road	0-25	1	25	0.9	0.15	3.38
	3rd-2nd cross road	0-25	1	25	0.9	0.15	3.38
	2nd to 1st cross road	0-25	1	25	0.9	0.15	3.38
	1st to purva pavillion pat	0-30	1	30	0.9	0.15	4.05
	Opp to road	0-30	1	30	0.9	0.15	4.05
		30-62	1	32	0.9	0.15	4.32
	LHS Side		1	3.6	1.8	0.15	0.97
			1	3.8	1.8	0.15	1.03
			1	2.5	1.8	0.15	0.68
			1	6.6	1.8	0.15	1.78
			1	7.4	1.8	0.15	2.00
			1	5.7	1.8	0.15	1.54
			1	5.3	1.8	0.15	1.43
			1	5.7	1.8	0.15	1.54
			1	5.5	1.8	0.15	1.49
			1	4	1.8	0.15	1.08
							78.33

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4	straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.						
			L	no of rods	le of u bar	Total length	
						10mm	8mm
	Chiranjeevi layout road (From Muneswamy gowda layout main road to Esteem mall road)						
	Main rod-0-45	1	45	450	1.85	832.5	
	distribution	1	45	7	45		315
	48.5-78.5	1	30	345	1.85	638.25	
		1	30	7	30		210
	78.5-108.50	1	30	345	1.85	638.25	
		1	30	7	30		210
	108.5-120.50	1	12	140	1.85	259	
		1	12	7	12		84
	0-30	1	30	345	1.9	655.5	
		1	30	7	30		210
	30-60	1	30	345	1.9	655.5	
		1	300	7	300		2100
	60-97	1	37	415	1.95	809.25	
		1	37	7	37		259
	102-127	1	25	285	1.95	555.75	
		1	25	7	25		175
	2nd cross						
	0-30	1	30	345	1.95	672.75	
		1	30	7	30		210
	30-50	1	20	235	1.95	458.25	
		1	20	7	20		140
	Kuvempu layout main road (From jain heritage school to sindhi college road)						
	to 4th cross road	0-24	24	270	1.95	526.5	
			24	7	24		168
	4th- 3rd cross road	0-25	25	285	1.95	555.75	
			25	7	25		175
	3rd-2nd cross road	0-25	25	285	1.95	555.75	
			25	7	25		175
	2nd to 1st cross road	0-25	25	285	1.95	555.75	
			25	7	25		175
	1st to purva pavillion pat	0-30	30	345	1.95	672.75	
			30	7	30		210
	Opp to road	0-30	30	345	1.95	672.75	
			30	7	30		210
		30-62	32	365	1.95	711.75	
			32	7	32		224

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						10426	**5250**
						0.62 kg/cum	0.39kg/cum
						6464.12	2047.5
						8511.62	
	Culvert	width					
	16mm dia cranked bars	12	25.6				
	at 0.15 c/c	80	170				
	1.75*1.25	140	212.5				
	at 1.58 kg/mtr	221.2	335.75	**556.95**			
	16mm un cranked bars	79	169				
	at 0.15 c/c						
	1.75	138.25	295.75	434			
	12mm dist at top and bottom @0.18m c/c	1.75	1.75				
		10	10				
		4.95	13.45				
	at 0.89 Kg/cum	4.4055	11.9705	16.376			
				4029.3			
				12540.9		**11.84** tonne	
5	Providing and removing Centering, shuttering, strutting, propping etc., for columns, pillars, piers, abutments, post and struts, square / rectangular slabs /side walls polygon in plan including cost of materials, labour complete as per specification and directions of the Engineer in charge.						
		Sqm					
	Chiranjeevi layout road (From Muneswamy gowda layout main road to Esteem mall road)						
	0-45		4	45		0.60	108.00
	48.5-78.5		4	30		0.60	72.00
	78.5-108.50		4	30		0.60	72.00
	108.5-120.50		4	12		0.60	28.80
	0-30		4	30		0.60	72.00
	30-60		4	30		0.60	72.00
	60-97		4	37		0.60	88.80
	102-127		4	25		0.60	60.00
	2nd cross						
	0-30		4	30		0.60	72.00
	30-50		4	20		0.60	48.00
	Kuvempu layout main road (From jain heritage school to sindhi college road)						
	to 4th cross road		4	24		0.60	57.60
	4th- 3rd cross road		4	25		0.60	60.00
	3rd-2nd cross road		4	25		0.60	60.00

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	2nd to 1st cross road		4	25		0.60	60.00
	1st to purva pavillion pat		4	30		0.60	72.00
	Opp to road		4	30		0.60	72.00
			4	32		0.60	76.80
	LHS Side		4	3.6		0.75	10.80
			4	3.8		0.75	11.40
			4	2.5		0.75	7.50
			4	6.6		0.75	19.80
			4	7.4		0.75	22.20
			4	5.7		0.75	17.10
			4	5.3		0.75	15.90
			4	5.7		0.75	17.10
			4	5.5		0.75	16.50
			4	4		0.75	12.00
						Total	**1302**
3	Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320 Kgs with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum with superplastizers @ 3lts confirming to IS 9103-1999 RE affirmed - 2008 machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, stair case lintels, retaining walls return walls, walls(anythickness) including attached plasters columns piers abutments pillars posts struts butresses string or lacing courses parapets copings, bed blocks , plain windows cills fillets etc., including cost of all materials labour HOM of machinery curing complete as per specifications.						
	Chiranjeevi layout road (From Muneswamy gowda layout main road to Esteem mall road)						
	0-45		1	45	0.90	0.15	6.08
	48.5-78.5		1	30	0.90	0.15	4.05
	78.5-108.50		1	30	0.90	0.15	4.05
	108.5-120.50		1	12	0.90	0.15	1.62
	0-30		1	30	0.90	0.15	4.05
	30-60		1	30	0.90	0.15	4.05
	60-97		1	37	0.90	0.15	5.00
	102-127		1	25	0.90	0.15	3.38
	2nd cross						
	0-30		1	30	0.90	0.15	4.05
	30-50		1	20	0.90	0.15	2.70
	Kuvempu layout main road (From jain heritage school to sindhi college road)						
	to 4th cross road	0-24	1	24	0.9	0.15	3.24
	4th- 3rd cross road	0-25	1	25	0.9	0.15	3.38
	3rd-2nd cross road	0-25	1	25	0.9	0.15	3.38

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	2nd to 1st cross road	0-25	1	25	0.9	0.15	3.38
	1st to purva pavillion pat	0-30	1	30	0.9	0.15	4.05
	Opp to road	0-30	1	30	0.9	0.15	4.05
		30-62	1	32	0.9	0.15	4.32
	Culverts						
			1	3.6	0.9	0.15	0.49
			1	3.8	0.9	0.15	0.51
			1	2.5	0.9	0.15	0.34
			1	6.6	0.9	0.15	0.89
			1	7.4	0.9	0.15	1.00
			1	5.7	0.9	0.15	0.77
			1	5.3	0.9	0.15	0.72
			1	5.7	0.9	0.15	0.77
			1	5.5	0.9	0.15	0.74
			1	4	0.9	0.15	0.54
							71.56
	SIDE WALL						
	Chiranjeevi layout road (From Muneswamy gowda layout main road to Esteem mall road)						
	0-45		2	45	0.15	0.60	8.10
	48.5-78.5		2	30	0.15	0.60	5.40
	78.5-108.50		2	30	0.15	0.60	5.40
	108.5-120.50		2	12	0.15	0.60	2.16
	0-30		2	30	0.15	0.60	5.40
	30-60		2	30	0.15	0.60	5.40
	60-97		2	37	0.15	0.60	6.66
	102-127		2	25	0.15	0.60	4.50
	2nd cross						
	0-30		2	30	0.15	0.60	5.40
	30-50		2	20	0.15	0.60	3.60
	Kuvempu layout main road (From jain heritage school to sindhi college road)						
	to 4th cross road	0-24	2	24	0.15	0.60	4.32
	4th- 3rd cross road	0-25	2	25	0.15	0.60	4.50
	3rd-2nd cross road	0-25	2	25	0.15	0.60	4.50
	2nd to 1st cross road	0-25	2	25	0.15	0.60	4.50
	1st to purva pavillion pat	0-30	2	30	0.15	0.60	5.40
	Opp to road	0-30	2	30	0.15	0.60	5.40
		30-62	2	32	0.15	0.60	5.76
	Culvert						
			2	3.6	0.15	0.75	0.81
			2	3.8	0.15	0.75	0.86
			2	2.5	0.15	0.75	0.56
			2	6.6	0.15	0.75	1.49
			2	7.4	0.15	0.75	1.67

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			2	5.7	0.15	0.75	1.28
			2	5.3	0.15	0.75	1.19
			2	5.7	0.15	0.75	1.28
			2	5.5	0.15	0.75	1.24
			2	4	0.15	0.75	0.90
							97.67
							169.20
6	Providing and fixing 10cms thick pre cast RCC covering slab using reinforced cement concrete M20 mix with stone aggregate 20mm and down size including centring shuttering reinforcement and bar bending machine mixed concrette laid in layers not exceeding 15 cm thick wellcompacted cost of all materials labour curing complete as per specfications						
	Chiranjeevi layout road (From Muneswamy gowda layout main road to Esteem mall road)						
	0-45		42	0.6	0.75		18.90
	48.5-78.5		45	0.6	0.75		20.25
	78.5-108.50		45	0.6	0.75		20.25
	108.5-120.50		20	0.6	0.75		9.00
	0-30		38	0.6	0.75		17.10
	30-60		37	0.6	0.75		16.65
	60-97		33	0.6	0.75		14.85
	102-127		23	0.6	0.75		10.35
	2nd cross						
	0-30		30	0.6	0.75		13.50
	30-50		15	0.6	0.75		6.75
							147.60
7	Providing and fixing 20 cm thick pre cast RCC covering slab using reinforced cement concrete M 20 mix with stone aggregate 20 mm and down size including centring shuttering reinforcement and bar bending machine mixed concrete laid in layers not exceeding 15 cm thick wellcompacted cost of all materials labour curing comlete as per specification						
	culvert		9	1.5	0.6		8
			9	1.5	0.6		8
			6	1.5	0.6		5
			9	1.5	0.6		8
			8	1.5	0.6		7
			10	1.5	0.6		9
			11	1.5	0.6		10
			11	1.5	0.6		10
			11	1.5	0.6		10
			11	1.5	0.6		10
							85.5

Checked. 17/8/19

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8	Laying Reinforced cement concrete pipe NP2 / prestressed concrete pipe for culverts on first class bedding of granular material in single row including fixing collar with cement mortar 1:2 but excluding excavation, protection works, backfilling, concrete and masonry works in head walls and parapets complete as per specifications.						
		mtr	4	1.5			6
							6
9	Providing 100mm and down size nominal size.						
		cum	4	0.29		0.6	0.68
							0.68
10	Providing 40mm and down size nominal size						
		cum	4	0.28		0.4	0.45
							0.45
11	Providing 20mm and down size nominal size						
		cum	4	0.28		0.4	0.45
							0.45
12	Providing Fine aggrgate 2.36mm nominal size						
		cum	4	0.28		0.3	0.34
							0.34
13	Providing and fixing MS Grating 260x260 mm						
		nos	75				75.00
							75.00
14	Loading and unloading of stone boulder/stone aggregates/ sand/ kanker/ moorum. KSRRB M100-1:Placing tipper at loading point loading with front end loading, dumping turning for return trip, excluding time for haulage and return trip complete as per specification MORTH Chapter 1						
		cum					551.30
							551.30

Assistant Engineer

Assistant Executive Engineer

ASST. Executive Engineer
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